



COMPLETE SAMPLE DELIVERY GROUP FILE (CSF)
EVIDENCE AUDIT CHECKLIST (EAC)
U.S. Environmental Protection Agency
Region 8 Superfund Program
Contract Laboratory Program (CLP)

1085990 - R8 SDMS

Route to
Validation (Y/N) _____

Case Number: 37402

SDG Number: M42599

AUDIT CHECKLIST

Note: The following items are verified for each Region 8 CSF, except those indicated as "Complete Audit Only." As described in the Region 8 Inspection of Complete Sample Delivery Group SOP, the items identified as "Complete Audit Only" are completed on approximately 10% of the Region 8 CSFs. When items identified as "Complete Audit Only" are not reviewed, "N/A" is marked.

CHAIN OF CUSTODY

1. Custody Seal Present? Yes X No _____
2. Condition of Seal? Intact X Signed X Broken _____ Unsigned _____
3. Chain of Custody Record(s)/Traffic Reports Present? Yes X No _____
4. Chain of Custody Record(s)/Traffic Reports Signed? Yes X No _____
5. Chain of Custody Record(s)/Traffic Reports Dated? Yes X No _____
6. Airbill Present? Yes _____ No X
7. Airbill Number(s)? na _____
8. Airbill Signed? Yes na No _____
9. Airbill Dated? Yes na No _____
10. Sample Tags Present? Yes _____ No X
11. Sample Tags Match DC-1 (Complete Audit Only)? Yes _____ No _____ N/A X

FORM DC-1

12. Form DC-1 Present? Yes X No _____

FORM DC-2

13. Form DC-2 Present? Yes X No _____
14. Form DC-2 Reviewed by USEPA and Correct (Complete Audit Only)? Yes _____ No _____ N/A X

DOCUMENT CONTROL

15. Laboratory Documents Legible (*Complete Audit Only*)? Yes X No N/A
16. Original Documents Included in CSF (*Complete Audit Only*)? Yes No N/A X

DATA INSPECTION

17. Raw data present (for each analytical fraction defined by the traffic report/chain of custody record)? Yes X No
18. Percent Solids Form present for soil samples? Yes No N/A X
19. Cover Page Present? Yes X No
20. Records of Communication Present? Yes X No N/A
21. Form 1s present (for each analytical fraction defined by the traffic report/chain of custody record/cover page) (*Complete Audit Only*)? Yes No N/A X

ELECTRONIC DATA

22. Electronic DAT file elements received?
- | | | | |
|--------------------|--------------|----------------|-----------------|
| EDD | Yes <u>X</u> | No <u> </u> | N/A <u> </u> |
| CCS Report | Yes <u>X</u> | No <u> </u> | N/A <u> </u> |
| M/VS Report | Yes <u>X</u> | No <u> </u> | N/A <u> </u> |
| Defect Code Report | Yes <u>X</u> | No <u> </u> | N/A <u> </u> |

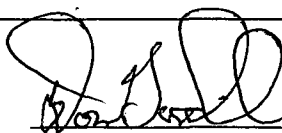
23. List RPM and contractors who received electronic DAT file:

Kathryn Hernandez - EPA
Testa Tech

COMMENTS:

No bills since the samples were hand delivered.
According to laboratory data package, sample tags
were not provided.

Audited By:
(As defined in the
Region 8 Inspection of
Complete Sample
Delivery Group SOP)


Signature

Don Goodman
Print Name

Date: 9/11/2008



Contract: EP-W-06-054

Case: 37402

SDG: MH2599

Set ID No.: 8171001

Cooler Number C08- <u>N/A</u>	Arrival temperature was <u>4</u> °C
Cooler Number C08- <u>↓</u>	Arrival temperature was <u>4</u> °C
Cooler Number C08- <u>↓</u>	Arrival temperature was <u>4</u> °C
Cooler Number C08- <u>↓</u>	Arrival temperature was <u>4</u> °C
Cooler Number C08- <u>↓</u>	Arrival temperature was <u>4</u> °C
Cooler Number C08- <u>_____</u>	Arrival temperature was <u>_____</u> °C
Cooler Number C08- <u>_____</u>	Arrival temperature was <u>_____</u> °C
Cooler Number C08- <u>_____</u>	Arrival temperature was <u>_____</u> °C
Cooler Number C08- <u>_____</u>	Arrival temperature was <u>_____</u> °C

7/14/08

Date: 7/14/08

Edwards, Meredith D.

From: Olson, Roxanne
Sent: Wednesday, June 18, 2008 2:47 PM
To: Edwards, Meredith D.
Subject: FW: Region 08 |Case 37402 |Lab DATAC | Issue Multiple | FINAL

Attachments: 2008061810320025.pdf; 37402 CLP IDs.xls



200806181032002537402 CLP IDs.xls
.pdf (642 KB) (28 KB)

-----Original Message-----

From: Kramer, Caroline [mailto:ckramer5@fedcsc.com]
Sent: Wednesday, June 18, 2008 2:24 PM
To: Olson, Roxanne
Cc: beard.carol@epa.gov
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Roxy,

Summary Start

-Discrepancies with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC. with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC.
Resolution 1: Per Region 8, the laboratory will note issue in the SDG Narrative and will use the CLP sample ID provided in the attached table for the DM water and soil samples. The TM water samples will retain the CLP ID listed on the TR/COC.

-Sample listed on TR/COC but not received at laboratory- Issue 2: No sample container was received for DM for sample on TR designated MH25A4. TM container was received.
Resolution 2: Per Region 8, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Summary End

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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-----Original Message-----

From: Beard.Carol@epamail.epa.gov [mailto:Beard.Carol@epamail.epa.gov]
Sent: Wednesday, June 18, 2008 1:17 PM
To: Kramer, Caroline
Subject: Re: Region 08 |Case 37402 | Lab DATAC | Issue Multiple

Caroline-

Issue 1 : Please provide the laboratory with new ID for the different matrices for Case 37402.

Issue 2 : Please have the laboratory note this in the case narrative and proceed with the analysis.

Thanks! Carol

"Kramer,
Caroline"
<ckramer5@fedcsc
.com>

To
Carol Beard/EPR/R8/USEPA/US@EPA
cc

06/18/2008 11:06
AM

Subject
Region 08 |Case 37402 | Lab DATAC
| Issue Multiple

Carol,
DATAC is reporting the follow issues regarding Case 37402 for samples delivered today. TR/COC are attached for reference. Please advise on how the Region wishes the laboratory to proceed.

-Discrepancies with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC.

*Please advise if you would like me to provide new ID for the different matrices. I can do this in a table like last time.

-Sample listed on TR/COC but not received at laboratory- Issue 2: No sample container was received for DM for sample on TR designated MH25A4.
TM container was received.

Please let me know if you have any questions.
Thanks,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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-----Original Message-----

From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Wednesday, June 18, 2008 12:40 PM
To: Kramer, Caroline
Cc: Edwards, Meredith D.
Subject: Case 37402 Sample Delivery 6/18

Caroline: Here are the TRs for case 37402 for samples we received today and which we spoke about a few minutes ago on the phone.

Issues we see immediately:

TM, DM and Sediment samples all have same EPA IDs. Water containers labels do

differentiate between DM and TM.

No container was received for DM for sample on TR designated MH25A4. TM container was received.

How do we complete DC-1 forms?

More issues may crop up but we can't begin to address this delivery until we get the first issues taken care of.

Thanks for your help!

Roxy

(See attached file: 2008061810320025.pdf)

Listed TR ID	Matrix	Analysis	New CLP ID
MH2599	water	TM	MH2599
	water (filterd)	DM	MH2662
	soil	TM	MH2663
MH25A0	water	TM	MH25A0
	water (filterd)	DM	MH2664
	soil	TM	MH2665
MH25A1	water	TM	MH25A1
	water (filterd)	DM	MH2666
	soil	TM	MH2667
MH25A2	water	TM	MH25A2
	water (filterd)	DM	MH2668
	soil	TM	MH2669
MH25A3	water	TM	MH25A3
	water (filterd)	DM	MH2670
	soil	TM	MH2671
MH25A6	water	TM	MH25A6
	water (filterd)	DM	MH2672
MH25A7	water	TM	MH25A7
	water (filterd)	DM	MH2673
	soil	TM	MH2674
MH25A9	water	TM	MH25A9
	water (filterd)	DM	MH2675
	soil	TM	MH2676
MH25B0	water	TM	MH25B0
	water (filterd)	DM	MH2677
	soil	TM	MH2678
MH25B1	water	TM	MH25B1
	water (filterd)	DM	MH2679
	soil	TM	MH2680
MH25B2	water	TM	MH25B2
	water (filterd)	DM	MH2681
	soil	TM	MH2682
MH25B3	water	TM	MH25B3
	water (filterd)	DM	MH2683
	soil	TM	MH2684
MH25B4	water	TM	MH25B4
	water (filterd)	DM	MH2685
MH25B5	water	TM	MH25B5
	water (filterd)	DM	MH2686
	soil	TM	MH2687
MH25B6	water	TM	MH25B6
	water (filterd)	DM	MH2688
	soil	TM	MH2689
MH25B7	water	TM	MH25B7
	water (filterd)	DM	MH2690
	soil	TM	MH2691

MH25B8	water	TM	MH25B8
	water (filterd)	DM	MH2692
	soil	TM	MH2693
MH25C0	water	TM	MH25C0
	water (filterd)	DM	MH2694
	soil	TM	MH9695
MH25C4	water	TM	MH25C4
	water (filterd)	DM	MH2696
MH25C5	water	TM	MH25C5
	water (filterd)	DM	MH2697
	soil	TM	MH2698
MH25C7	water	TM	MH25C7
	water (filterd)	DM	MH2699
	soil	TM	MH26A0
MH25C8	water	TM	MH25C8
	water (filterd)	DM	MH26A1
	soil	TM	MH26A2
MH25C9	water	TM	MH25C9
	water (filterd)	DM	MH26A3
MH25D1	water	TM	MH25D1
	water (filterd)	DM	MH26A4
	soil	TM	MH26A5
MH25D3	water	TM	MH25D3
	water (filterd)	DM	MH26A6
MH25D4	water	TM	MH25D4
	water (filterd)	DM	MH26A7
	soil	TM	MH26A8
MH25D5	water	TM	MH25D5
	water (filterd)	DM	MH26A9
	soil	TM	MH26B0
MH25D6	water	TM	MH25D6
	water (filterd)	DM	MH26B1
MH25D7	water	TM	MH25D7
	water (filterd)	DM	MH26B2
	soil	TM	MH26B3
MH25D8	water	TM	MH25D8
	water (filterd)	DM	MH25B4
MH25D9	water	TM	MH25D9
	water (filterd)	DM	MH26B5
MH25E0	water	TM	MH25E0
	water (filterd)	DM	MH26B6
MH25E1	water	TM	MH25E1
	water (filterd)	DM	MH26B7
MH25E2	water	TM	MH25E2
	water (filterd)	DM	MH26B8
MH25E3	water	TM	MH25E3
	water (filterd)	DM	MH26B9

MH25E4	water	TM	MH25E4
	water (filterd)	DM	MH26C0
	soil	TM	MH26C1
MH25E5	water	TM	MH25E5
	water (filterd)	DM	MH26C2
	soil	TM	MH26C3
MH25E6	water	TM	MH25E6
	water (filterd)	DM	MH26C4
	soil	TM	MH26C5
MH25E7	water	TM	MH25E7
	water (filterd)	DM	MH26C6
	soil	TM	MH26C7
MH25E8	water	TM	MH25E8
	water (filterd)	DM	MH26C8
	soil	TM	MH26C9
MH25E9	water	TM	MH25E9
	water (filterd)	DM	MH26D0
MH25F0	water	TM	MH25F0
	water (filterd)	DM	MH26D1

Edwards, Meredith D.

From: Olson, Roxanne
Sent: Friday, June 20, 2008 9:54 AM
To: Edwards, Meredith D.
Subject: FW: Region 08 |Case 37402 | Lab DATAC | Issue Insufficient volume | FINAL

From: Kramer, Caroline [mailto:ckramer5@fedcsc.com]
Sent: Friday, June 20, 2008 9:46 AM
To: Olson, Roxanne
Cc: beard.carol@epa.gov
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Insufficient volume | FINAL

Roxy,

Summary Start

Issue: There were no samples designated on the TR/COC for laboratory QC and lab QC is required per scheduling. The laboratory is unable to perform a reduced volume QC on the waters as the samplers delivered the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. Below is a list of the SDG for Case 37402 and the laboratory has indicated which SDG will not have sufficient volume for QC, and where possible selected a sample they would like to use for QC.

MH2599 (TM water) no QC selected as there is not enough volume.

MH25C5 (TM water) no QC selected as there is not enough volume.

MH25E8 (TM water) no QC selected as there is not enough volume.

MH2662 (DM water) no QC selected as there is not enough volume.

MH2697 (DM water) no QC selected as there is not enough volume.

MH26C8 (DM water) no QC selected as there is not enough volume.

MH25F1 (TM soil) selected MH26C9 for QC.

MH2663 (TM soil) selected MH2695 for QC

Resolution: Per Region 8, the laboratory's selection of soil QC samples is acceptable. The laboratory will note the volume insufficiency in the SDG Narrative, cancel lab QC on the TM and DM SDG and proceed with the analysis of the samples.

Summary End

Please let me know if you have any questions or problems.

Thank you,

Caroline L. Kramer

ckramer5@fedcsc.com

Computer Sciences Corporation (CSC)

703.818.4248

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→ 6/20/2008 Phone conversation between Caroline Kramer, SMO, and Carol Beard, Region 8. Carol confirmed that the soil samples selected for QC are acceptable and that DATAC can cancel the QC for the water samples due to insufficient sample volume. The laboratory will note the issue in the SDG Narrative.

From: Kramer, Caroline

6/20/2008

Sent: Thursday, June 19, 2008 3:21 PM
To: 'beard.carol@epa.gov'
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Insufficient volume

Carol,
DATAC is reporting the following issue regarding Case 37402. Please advise on how the Region wishes the laboratory to proceed.

Issue: There were no samples designated on the TR/COC for laboratory QC and lab QC is required per scheduling. The laboratory is unable to perform a reduced volume QC on the waters as the samplers delivered the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. Below is a list of the SDG for Case 37402 and the laboratory has indicated which SDG will not have sufficient volume for QC, and where possible selected a sample they would like to use for QC.

MH2599 (TM water) no QC selected as there is not enough volume.
MH25C5 (TM water) no QC selected as there is not enough volume.
MH25E8 (TM water) no QC selected as there is not enough volume.
MH2662 (DM water) no QC selected as there is not enough volume.
MH2697 (DM water) no QC selected as there is not enough volume.
MH26C8 (DM water) no QC selected as there is not enough volume.
MH25F1 (TM soil) selected MH26C9 for QC.
MH2663 (TM soil) selected MH2695 for QC

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Thursday, June 19, 2008 3:04 PM
To: Kramer, Caroline
Subject: FW: Region 8 Case 37402

Caroline: See the following for the SDGs and where possible DATAC's selection for QC. Please note that because this was a confusing login effort we have one SDG (MH2663) that we did not use the lowest alpha numeric number to name the SDG.

Roxy

From: Edwards, Meredith D.
Sent: Thursday, June 19, 2008 12:57 PM
To: DataChem EPA List
Subject: Region 8 Case 37402

Here are the SDG names and then the samples I chose for QC.

6/20/2008

MH2599 TM water no QC selected as there is not enough volume.

MH25C5 TM water no QC selected as there is not enough volume.

MH25E8 TM water no QC selected as there is not enough volume.

MH2662 DM water no QC selected as there is not enough volume.

MH2697 DM water no QC selected as there is not enough volume.

MH26C8 DM water no QC selected as there is not enough volume.

MH25F1 TM soil selected MH26C9 for QC.

MH2663 TM soil selected MH2695 for QC also on this SDG I used a higher number to name the SDG. Since there were only 2 samples that didn't change names after receipt it was very confusing.

Thanks

Mere

-----Original Message-----

From: Kramer, Caroline

Sent: Thursday, June 19, 2008 10:47 AM

To: 'Olson, Roxanne'

Subject: RE: Region 08 | Case 37402 | Lab DATAC | Issue Multiple | FINAL

Roxy,

Just let me know as soon as you know which SDG will not have sufficient volume and I will pass it along to the Region for a resolution.

Please let me know if you have any confusion with the spreadsheet of new sample IDs as you are logging them in.

Thanks,

Caroline L. Kramer

ckramer5@fedcsc.com

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-----Original Message-----

From: Olson, Roxanne [mailto:olsonr@datachem.com]

Sent: Thursday, June 19, 2008 10:38 AM

To: Kramer, Caroline

Subject: FW: Region 08 | Case 37402 | Lab DATAC | Issue Multiple | FINAL

Caroline: Another issue with the samples from yesterday as we were logging them in. We have no extra volume for the water samples for QC. Is the case closed or should we expect additional volume from another delivery? We can't even do a reduced volume on the waters as the samplers are delivering the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. I will let you know which SDGs will not have QC as soon as we complete the login.

6/20/2008

Roxy

USEPA - CLP
COVER PAGE

Lab Name: DataChem Laboratories

Contract: EP-W-06-054

Lab Code: DATA C

Case No.: 37402

NRAS No.: 1554.1

SDG No.: MH2599

SOW No.: ILM05.4

EPA Sample No.

Lab Sample ID

MH2599

8171001001

MH25A0

8171001002

MH25A2

8171001004

MH25A3

8171001005

MH25A4

8171001006

MH25A6

8171001007

MH25A7

8171001008

MH25A9

8171001009

MH25B0

8171001010

MH25B1

8171001011

MH25B2

8171001012

MH25B3

8171001013

MH25B4

8171001014

MH25B5

8171001015

MH25B6

8171001016

MH25B7

8171001017

MH25B8

8171001018

MH25C0

8171001019

MH25C4

8171001020

ICP-AES ICP-MS

Were ICP-AES and ICP-MS Interelement
corrections applied?

(Yes/No)

NO

YES

Were ICP-AES and ICP-MS background corrections
applied?

(Yes/No)

NO

NO

If yes - were raw data generated before
application of background corrections?

(Yes/No)

NO

NO

Comments:

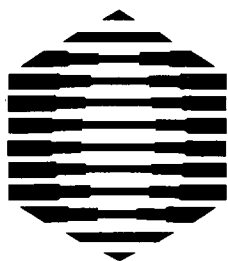
I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____

Name: Neil Edwards

Date: 07/11/2008

Title: Chemist



**DATA
CHEM**
LABORATORIES, INC.

SDG NARRATIVE

Case #: 37402
SDG#: MH2599
Contract #: EP-W-06-054
DCL Set ID#: 8171001
Modification#: 1554.1
July 9, 2008

General Information

The nineteen samples in this SDG were analyzed by methodologies contained in ILM05.4. All concentration, analytical, and method qualifiers are defined in the SOW.

Holding Times

The samples were prepared and analyzed within method required holding times.

Initial and Continuing Calibration

All initial and continuing calibration verification and blank analyses were performed within the designated frequency and recoveries of the verifications and concentrations of the blanks met method acceptance criteria.

ICP-MS Interference Check Sample Analysis

Results for the interference check samples met method acceptance criteria.

Preparation Blanks

The absolute values of all analyte concentrations in the preparation blanks were lower than the Contract Required Quantitation Limits.

Laboratory Control Sample Analysis

Results for the analysis of the water LCS met method acceptance criteria.

Matrix Spike Analysis

A matrix spike was not prepared or analyzed due to insufficient sample volume.

Matrix Duplicate Analysis

A matrix duplicate was not prepared or analyzed due to insufficient sample volume.

ICP-MS Serial Dilution

ICP-MS Serial Dilutions results met method acceptance criteria except for nickel.

Miscellaneous Comments

All calibration data is linear, please see raw data.

Cooler Temps were at 4 °C.

Issue: Samples were received with the same sample ID for TM and DM. New CLP sample IDs were received for the DM analysis.

Issue: Insufficient sample volumes were received to prepare or analyze matrix spike and matrix spike duplicate samples.

Example Equations

Method HW3: $C \times \frac{V_f}{V_i} \times DF = \text{Concentration}(\mu\text{g/L})$

C = Instrument value in $\mu\text{g/L}$ (The average of all replicate integrations).

Vf= Final digestion volume (mL)

Vi= Initial digestion volume (mL)

DF = Dilution Factor

SAMPLE LOG-IN SHEET

Mod 1554.1

Lab Name		DataChem Laboratories, Inc.				Page <u>1</u> of <u>1</u>	
Received By (Print Name)		Meredith Edwards				Log-In Date	
Received By (Signature)		<i>Meredith Edwards</i>				6/19/08	
Case Number		37402		Sample Delivery Group No.		MH2599	
				NRAS Number		n/a	
Remarks:		EPA Sample #	Aqueous Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.	
				Sample Tag #	Assigned Lab #		
1. Custody Seal (s) Present/Absent* Intact/Broken*		MH 2599	L2	n/a	8/71001001	TM water	
2. Custody Seal Nos. <u>n/a</u>		A0			002		
		A2			004		
		A3			005		
3. Traffic Reports/Chain of Custody Records or Packing Lists Present/Absent*		B2			012		
4. Airbill Airbill/Sticker Present/Absent*		B3			013		
		B6			016		
5. Airbill No. <u>n/a</u>		E1					
		E2					
6. Sample Tags Present/Absent*		MH 2602				TM water	
Sample Tag Numbers Listed/Not Listed on Chain-of-Custody		04					
7. Sample Condition Intact/Broken*/Leaking*		08					
8. Cooler Temperature Indicator Bottle Present/Absent*		70					
9. Cooler Temperature <u>41</u>		81					
10. Does information on custody records, traffic reports, and sample tags agree? Yes/No*		83					
11. Date Received at lab <u>6/18/08</u>		88					
12. Time Received <u>8:15</u>		87					
Sample Transfer		B8					
Fraction <u>TM/DM</u>		<div style="font-size: 2em; transform: rotate(-45deg); display: inline-block;"> <i>See 6/18/08</i> </div>					
Area # <u>P. 331</u>							
By <u>ME</u>							
On <u>6/18/08</u>							

* Contact SMO and attach record of resolution

Reviewed By <i>Shannon Olson</i>		Logbook No. NOT APPLICABLE	
Date: <u>6/19/08</u>		Logbook Page No. NOT APPLICABLE	

SAMPLE LOG-IN SHEET

MOA 1554.1

Lab Name DataChem Laboratories, Inc.		Page <u>1</u> of <u>1</u>											
Received By (Print Name) Meredith Edwards		Log-In Date 6/19/08											
Received By (Signature) <i>Meredith Edwards</i>													
Case Number 37402		Sample Delivery Group No. MH 2599											
NRAS Number n/a													
Remarks:	EPA Sample #	Aqueous Sample pH	Corresponding										
			Sample Tag # Assigned Lab #										
1. Custody Seal (s) Present/Absent* Intact/Broken*	MH 25 A6	62	n/a 8171001007										
2. Custody Seal Nos. <u>n/a</u> <u>1</u>	DS												
3. Traffic Reports/Chain of Custody Records or Packing Lists Present/Absent*	D6												
4. Airbill Airbill/Sticker Present/Absent*	D7												
5. Airbill No. <u>n/a</u> <u>1</u>	D8												
6. Sample Tags Present/Absent* Sample Tag Numbers <u>Not Listed on Chain of Custody</u>	ED												
7. Sample Condition Intact/Broken*/Leaking*	ET												
8. Cooler Temperature Indicator Bottle Present/Absent*	MH 26 72		DM water										
9. Cooler Temperature <u>41</u>	A9												
10. Does information on custody records, traffic reports, and sample tags agree? Yes/No*	B1												
11. Date Received at lab <u>6/18/08</u>	B2												
12. Time Received <u>8:15</u>	B4												
<div style="border: 1px solid black; padding: 5px;"> Sample Transfer <table border="1"> <tr> <td>Fraction</td> <td>Fraction</td> </tr> <tr> <td>DM/DM</td> <td>Ac 6/18/08</td> </tr> <tr> <td>Area # P-33.1</td> <td>Area #</td> </tr> <tr> <td>By Mc</td> <td>By</td> </tr> <tr> <td>On 6/18/08</td> <td>On</td> </tr> </table> </div>				Fraction	Fraction	DM/DM	Ac 6/18/08	Area # P-33.1	Area #	By Mc	By	On 6/18/08	On
				Fraction	Fraction								
				DM/DM	Ac 6/18/08								
				Area # P-33.1	Area #								
By Mc	By												
On 6/18/08	On												
Reviewed By <i>Josephine Olson</i>		Logbook No. NOT APPLICABLE											
Date: 6/19/08		Logbook Page No. NOT APPLICABLE											

SAMPLE LOG-IN SHEET

Mud 1554.1

Lab Name DataChem Laboratories, Inc.		Page <u>1</u> of <u>1</u>	
Received By (Print Name) <i>Meredith Edwards</i>		Log-In Date <i>6/19/08</i>	
Received By (Signature) <i>Meredith Edwards</i>			
Case Number <i>37402</i>	Sample Delivery Group No. <i>MH2591</i>	NRAS Number <i>n/a</i>	

Remarks:	EPA Sample #	Aqueous Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1. Custody Seal (s) Present/Absent* Intact/Broken* <input checked="" type="radio"/>	<i>MH25A4</i>	<i>42</i>	<i>N/A</i>	<i>8/7/00/0000</i>	<i>TM water</i>
	<i>B7</i>			<i>1 017</i>	
2. Custody Seal Nos. <i>N/A</i> <i>1</i>	<i>C5</i>				
	<i>D3</i>				
3. Traffic Reports/Chain of Custody Records or Packing Lists Present/Absent* <input checked="" type="radio"/>	<i>D4</i>				
4. Airbill Airbill/Sticker Present/Absent* <input checked="" type="radio"/>	<i>E5</i>				
	<i>E6</i>				
5. Airbill No. <i>N/A</i> <i>1</i>	<i>MH2690</i>				<i>DM water</i>
	<i>97</i>				
6. Sample Tags Present/Absent* <input checked="" type="radio"/>	<i>A6</i>				
Sample Tag Numbers Listed/Not Listed on Chain of Custody <input checked="" type="radio"/>	<i>A7</i>				
7. Sample Condition Intact/Broken*/Leaking* <input checked="" type="radio"/>	<i>C2</i>				
8. Cooler Temperature Indicator Bottle Present/Absent* <input checked="" type="radio"/>	<i>C4</i>				
9. Cooler Temperature <i>4</i>					
10. Does information on custody records, traffic reports, and sample tags agree? Yes/No* <input checked="" type="radio"/>					
11. Date Received at lab <i>6/18/08</i>					
12. Time Received <i>8:15</i>					
<div style="border: 1px solid black; padding: 5px; display: inline-block; transform: rotate(-15deg);"> <i>See 6/18/08</i> </div>					
Sample Transfer					
Fraction <i>DM</i>	Fraction <i>DM</i>				
Area # <i>P-32.1</i>	Area # <i>P-32.1</i>				
By <i>MR</i>	By <i>MR</i>				
On <i>6/18/08</i>	On <i>6/18/08</i>				

Reviewed By <i>Joyanne Allen</i>	Logbook No. NOT APPLICABLE
Date: <i>6/19/08</i>	Logbook Page No. NOT APPLICABLE

SAMPLE LOG-IN SHEET

mod 1554.1

Lab Name DataChem Laboratories, Inc.		Page <u>1</u> of <u>1</u>	
Received By (Print Name) <i>Meredith Edwards</i>		Log-In Date <i>6/19/08</i>	
Received By (Signature) <i>Meredith Edwards</i>			
Case Number <i>37402</i>	Sample Delivery Group No. <i>MH2599</i>	NRAS Number <i>n/a</i>	

Remarks:	EPA Sample #	Aqueous Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1. Custody Seal (s) Present/Absent* intact/Broken*	<i>MH 25 A7</i>	<i>12</i>	<i>n/a</i>	<i>8171001008</i>	<i>TM water</i>
	<i>A9</i>			<i>009</i>	
2. Custody Seal Nos. <i>n/a</i>	<i>B0</i>			<i>010</i>	
	<i>B1</i>			<i>011</i>	
3. Traffic Reports/Chain of Custody Records or Packing Lists Present/Absent*	<i>B4</i>			<i>014</i>	
4. Airbill Airbill/Sticker Present/Absent*	<i>B5</i>			<i>015</i>	
	<i>B8</i>			<i>018</i>	
5. Airbill No. <i>n/a</i>	<i>D9</i>				
	<i>E8</i>				
6. Sample Tags Present/Absent*	<i>F1</i>	<i>n/a</i>			<i>Metals Soil</i>
Sample Tag Numbers Used/Not Listed on Chain-of-Custody	<i>MH 26 B3</i>	<i>12</i>			<i>TM water</i>
7. Sample Condition Intact/Broken*/Leaking*	<i>75</i>				
8. Cooler Temperature Indicator Bottle Present/Absent*	<i>77</i>				
9. Cooler Temperature <i>4</i>	<i>79</i>				
10. Does information on custody records, traffic reports, and sample tags agree? Yes/No*	<i>85</i>				
11. Date Received at lab <i>6/18/08</i>	<i>86</i>				
12. Time Received <i>815</i>	<i>92</i>				
Sample Transfer	<i>B5</i>				
Fraction <i>M/TM</i>	<i>C8</i>				
Area # <i>P. 331</i>					
By <i>Me</i>					
On <i>6/18/08</i>					

* Contact SMO and attach record of resolution

Reviewed By <i>[Signature]</i>	Logbook No. NOT APPLICABLE
Date: <i>6/19/08</i>	Logbook Page No. NOT APPLICABLE

SAMPLE LOG-IN SHEET

Mod 1554.1

Lab Name		DataChem Laboratories, Inc.				Page <u>1</u> of <u>1</u>	
Received By (Print Name)		Meredith Edwards				Log-In Date	
Received By (Signature)		<i>Meredith Edwards</i>				6/19/08	
Case Number		Sample Delivery Group No.		NRAS Number			
37452		MH2599		n/a			
Remarks:		EPA Sample #	Aqueous Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.	
				Sample Tag #	Assigned Lab #		
1. Custody Seal (s) Present/Absent* Intact/Broken*		MH 25 CO	42	n/a	8171001019	TM water	
		04			1 020		
2. Custody Seal Nos. <u>n/a</u> <u>1</u>		07					
		08					
3. Traffic Reports/ Chain of Custody Records or Packing Lists Present/Absent*		09					
4. Airbill Airbill/Sticker Present/Absent*		D1					
		E3					
5. Airbill No. <u>n/a</u> <u>1</u>		E4					
		E9					
6. Sample Tags Present/Absent* Sample Tag Numbers Listed/Not Listed on Chain-of-Custody		FD					
		MH 26 94				DM water	
7. Sample Condition Intact/Broken*/ Leaking*		96					
8. Cooler Temperature Indicator Bottle Present/Absent*		99					
9. Cooler Temperature <u>4</u>		A1					
10. Does information on custody records, traffic reports, and sample tags agree? Yes/No*		A3					
11. Date Received at lab <u>6/18/08</u>		A4					
12. Time Received <u>8:15</u>		B9					
Sample Transfer		CO					
Fraction <u>TM/DM</u>		DO					
Area # <u>P. 331</u>		D1					
By <u>AM</u>							
On <u>6/18/08</u>							

* Contact SMO and attach record of resolution

Reviewed By <i>James Allen</i>		Logbook No. NOT APPLICABLE	
Date: <u>6/19/08</u>		Logbook Page No. NOT APPLICABLE	

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME	DataChem Laboratories, Inc.		
CITY/STATE	Salt Lake City, UT 84123		
CASE NO.	37402	SDG NO.:	MH2599
SDG NOS. TO FOLLOW	N/A		
NRAS No.	N/A		
CONTRACT NO.	EP-W-06-054		
SOW NO.	ILM05.4		

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.6)

	PAGE NOS		CHECK	
	FROM	TO	LAB	REGION
1. Cover Page	1	1	✓	
2. SDG Narrative	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	8	✓	
4. Inventory Sheet (DC-2)	9	10	✓	
5. Traffic Report/Chain of Custody Record(s)	11	13	✓	
Inorganic Analysis				
6. Data Sheet (Form I-IN)	14	32	✓	
7. Initial & Continuing Calibration Verification (Form IIA-IN)	33	38	✓	
8. CRQL Standard (Form IIB-IN)	39	41	✓	
9. Blanks (Form III-IN)	42	45	✓	
10. ICP-AES Interference Check Sample (Form IVA-IN)	NA		✓	
11. ICP-MS Interference Check Sample (Form IVB-IN)	46	48	✓	
12. Matrix Spike Sample Recovery (Form VA-IN)	NA		✓	
13. Post-Digestion Spike Sample Recovery (Form VB-IN)	NA		✓	
14. Duplicates (Form VI-IN)	NA		✓	
15. Laboratory Control Sample (Form VII-IN)	49	49	✓	
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	50	50	✓	
17. Method Detection Limits (Annually) (Form IX-IN)	51	52	✓	
18. ICP-AES Interelement Correction Factors (Quarterly) Form XA-IN	NA		✓	
19. ICP-AES Interelement Correction Factors (Quarterly) Form XB-IN	NA		✓	
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) Form XI-IN	53	53	✓	
21. Preparation Log (Form XII-IN)	54	54	✓	

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOS		CHECK	
	FROM	TO	LAB	REGION
22. Analysis Run Log (Form XIII-IN)	55	58	✓	
23. ICP-MS Tune (Form XIV-IN)	59	60	✓	
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	61	74	✓	
25. ICP AES Raw Data	NA		✓	
26. GFAA Raw Data (If Applicable)	NA		✓	
27. ICP-MS Raw Data	75	248	✓	
28. Mercury Raw Data	NA		✓	
29. Cyanide Raw Data	NA		✓	
30. Preparation Logs Raw Data	249	249	✓	
31. Percent Solids Determination Log	NA		✓	
32. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments _____)	250	250	✓	
Sample Tags	251	251	✓	
Sample Log-In Sheet (Lab)	NA		✓	
33. Misc. Shipping/Receiving Records				
(list all individual records)				
Telephone Logs	NA		✓	
DCL CRIR	NA		✓	
DCL SDG TR Cover Sheet	252	252	✓	
34. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
DCL Work Order	NA		✓	
DCL COC	253	254	✓	
35. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records _____	255	260	✓	
Analysis Records _____	261	284	✓	
Description _____	NA		✓	
36. Other Records (describe or list)				
Telephone Communications Log	NA		✓	
E-mail Communications	285	294	✓	
_____			✓	
37. Comments: _____				

Completed by:
(CLP Lab)

Julie Warath
(Signature)

Julie Warath / Doc. Ctrl.
(Print Name & Title)

7/14/08
(Date)

Audited By:
(USEPA)

(Signature)

(Print Name & Title)

(Date)



USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record



Case No: 37402

S No:

SDG No:

MH2599

L

11

Date Shipped: 6/16/2008 Carrier Name: Hand delivered Airbill: Shipped to: Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	Chain of Custody Record		Sampler Signature: <i>Ch #7</i>	For Lab Use Only	
	Relinquished By (Date / Time)	Received By (Date / Time)			
	1 <i>Ch #7</i> 6/18/08	<i>James Sedwick</i> 6/18/08 / 15			
	2				
	3				
4					
			Lab Contract No: EPWD 0054		
			Unit Price: <i>NR</i>		
			Transfer To: <i>Ch #7</i>		
			Lab Contract No:		
			Unit Price:		

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH2598	Surface Water	/G	DM (21), TM (21)	1, 2, 3 (3)	Secondary Discharge from STP	6/3/2008	12:45	
MH2599	Surface Water	/G	DM (21), TM (21)	4, 5, 6 (3)	Secondary Discharge from STP	6/3/2008	1:00	
MH25A0	Surface Water	/G	DM (21), TM (21)	7, 8, 9 (3)	Secondary Discharge from STP	6/3/2008	1:15	
MH25A1	Surface Water	/G	DM (21), TM (21)	10, 11, 12 (3)	Silver Creek below STP @ USGS Gaging Station	6/3/2008	10:50	
MH2599	Surface Water/ Sediment	/G	DM (21), TM (21)	13, 14, 15 (3)	Inflow from Irrigation Ditch	S: 6/3/2008	9:45	
MH25A0	Surface Water/ Sediment	/G	DM (21), TM (21)	16, 17, 18 (3)	Silver Creek below STP @ USGS Gaging Station	S: 6/3/2008	10:50	
MH25A1	Surface Water/ Sediment	/G	DM (21), TM (21)	19, 20, 21 (3) (1)	Discharge from STP	S: 6/3/2008	10:15	
MH25A2	Surface Water/ Sediment	/G	DM (21), TM (21)	22, 23, 24 (3)	Silver Creek Above STP	S: 6/3/2008	11:30	
MH25A3	Surface Water/ Sediment	/G	DM (21), TM (21)	25, 26, 27 (3)	Silver Creek downstream of Tailings 3	S: 6/3/2008	12:30	
MH25A4	Surface Water	/G	DM (21), TM (21)	28, 29, 30 (3) (2)	Silver Creek downstream of Tailings 2	S: 6/3/2008	14:20	

No DM container received
RO 6/18/08

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4/4/4/7	Chain of Custody Seal Number:	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? <i>N</i>	Shipment Iced? <i>Y</i>
DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals					

TR Number: 8-584325316-061608-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 37402

DAS No:

SDG No: MH2599

L

12

Date Shipped: 6/16/2008 Carrier Name: Hand delivered Airbill: Shipped to: Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	Chain of Custody Record		Sampler Signature: <i>Ch H</i>	For Lab Use Only Lab Contract No: EPA 060054 Unit Price: n/a Transfer To: <i>Ch 6/18/08</i> Lab Contract No: Unit Price:	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 <i>Ch H</i>	6/16/08	<i>Michael J. ...</i>		6/18/08
	2				
	3				
4					

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH25A5	Surface Water Sediment	/G	DM (21), TM (21)	31, 32, 33 (3) (1)	Inflow from UNT to LSC	S: 6/3/2008 15:30		
MH25A6	Surface Water	/G	DM (21), TM (21)	34, 35, 36 (3) (2)	Silver Creek below Transect 3	S: 6/4/2008 10:00		
MH25A7	Surface Water/ Sediment	/G	DM (21), TM (21)	37, 38, 39 (3)	Silver Creek below the confluence with UNT	S: 6/4/2008 10:45		
MH25A8	Surface Water	/G	DM (21), TM (21)	40, 41, 42 (3)	Silver Creek			
MH25A9	Surface Water/ Sediment	/G	DM (21), TM (21)	43, 44, 45 (3)	Silver Creek Downstream of Tailings 1	S: 6/4/2008 11:45		
MH25B0	Surface Water/ Sediment	/G	DM (21), TM (21)	46, 47, 48 (3)	Silver Creek at the Rail Trail near cement plant	S: 6/4/2008 12:25		
MH25B1	Surface Water/ Sediment	/G	DM (21), TM (21)	49, 50, 51 (3)	Silver Creek downstream of UNT	S: 6/4/2008 12:50		
MH25B2	Surface Water/ Sediment	/G	DM (21), TM (21)	52, 53, 54 (3)	UNT of the diversion channel	S: 6/4/2008 13:05		
MH25B3	Surface Water/ Sediment	/G	DM (21), TM (21)	55, 56, 57 (3)	Silver Creek below diversion of irrigation ditch	S: 6/4/2008 15:20		
MH25B4	Surface Water	/G	DM (21), TM (21)	58, 59, 60 (3) (2)	Irrigation diversion abover Homer Pace Ditch	S: 6/4/2008 14:50		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4/4/4/4/4	Chain of Custody Seal Number:
Analysis Key: DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? N	Shipment Iced? Y

TR Number: 8-584325316-061608-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

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**USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record**

Case No: 37402

DAS No:

SDG No:

L

13

Date Shipped: 6/16/2008 Carrier Name: Hand delivered Airbill: Shipped to: Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	Chain of Custody Record		Sampler Signature: <i>Ch #7</i>	For Lab Use Only Lab Contract No: EPWD6054 Unit Price: n/a Transfer To: <i>Alc 6/16/08</i> Lab Contract No: Unit Price:	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 <i>Ch #7</i>	6/16/08	<i>Murad Edwar</i>		6/18/08
	2				
	3				
4					

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH25B5	Surface Water/ Sediment	/G	DM (21), TM (21)	61, 62, 63 (3)	Mouth of irrigation diversion ditch			
MH25B6	Surface Water/ Sediment	/G	DM (21), TM (21)	64, 65, 66 (3)	Silver Creek below Richardson Flat Tailings	S: 6/4/2008	14:30	
MH25B7	Surface Water/ Sediment	/G	DM (21), TM (21)	67, 68, 69 (3)	Inflow from drainage ditch along US-40	S: 6/5/2008	7:30	
MH25B8	Surface Water/ Sediment	/G	DM (21), TM (21)	70, 71, 72 (3)	Silver Creek below floodplain tailings	S: 6/4/2008	15:50	
MH25B9	Surface Water	/G	DM (21), TM (21)	73, 74, 75 (3)	Diversion from Dority Springs to Silver Creek			
MH25C0	Surface Water/ Sediment	/G	DM (21), TM (21)	76, 77, 78 (3)	Silver Creek above floodplain tailings	S: 6/5/2008	9:55	
MH25C1	Surface Water	/G	DM (21), TM (21)	79, 80, 81 (3)	Diversion to the irrigation ditch			
MH25C2	Surface Water	/G	DM (21), TM (21)	82, 83, 84 (3)	Diversion from Silver Maple Creek			
MH25C3	Surface Water	/G	DM (21), TM (21)	85, 86, 87 (3)	Silver Creek above Silver Maple Creek			
MH25C4	Surface Water	/G	DM (21), TM (21)	88-89-90 (3) (2)	Inflow to Silver Creek from Dority Springs	S: 6/5/2008	11:52	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4/4/4/4/4	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>
DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals				

TR Number: 8-584325316-061608-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

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TARGET SHEET
EPA REGION VIII
SUPERFUND DOCUMENT MANAGEMENT SYSTEM

DOCUMENT NUMBER: 1085990

SITE NAME: RICHARDSON FLAT TAILINGS

DOCUMENT DATE: 09/11/2008

DOCUMENT NOT SCANNED

Due to one of the following reasons:

- ☐ PHOTOGRAPHS
- ☐ 3-DIMENSIONAL
- ☐ OVERSIZED
- ☐ AUDIO/VISUAL
- ☐ PERMANENTLY BOUND DOCUMENTS
- ☐ POOR LEGIBILITY
- ☒ OTHER
- ☐ NOT AVAILABLE
- ☐ TYPES OF DOCUMENTS NOT TO BE SCANNED
(Data Packages, Data Validation, Sampling Data, CBI, Chain of Custody)

DOCUMENT DESCRIPTION:

1 - 3 1/2" Floppy - File Name MH2599.IO1, .IO2 & .IO3, Contract
#EP-W-06-054, Case/SDG 37402/MH2599, 7/14/08